

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A fuel injector (2), ~~comprising: comprising~~
a chamber (7) with a fuel inlet (8) and a plurality of fuel outlets (1); ~~and outlets~~ (10), ~~and~~
~~comprising~~
a fuel distributor (18) ~~that is arranged in the chamber (7) to distribute for the purpose of~~
~~distributing~~ fuel introduced into the chamber (7) via the fuel inlet (8) to the outlets (10), said
chamber (7) being delimited by at least one side wall (16) provided with said fuel inlet (8) and a
first end wall (17) provided with said fuel outlets (10), characterized in that wherein the fuel
distributor (18) comprises a generally rotary symmetric distributor body (19) extending towards
the first end wall (17) and ends at a given distance from the first end wall (17) and thereby being
positioned in front of the fuel inlet (8) and cover the fuel inlet (8) when projected on the side
wall (16).
2. (Currently amended) A fuel injector according to claim 1, ~~characterized in that the chamber~~
~~(7) is delimited by at least one side wall (16), and that wherein~~ said fuel distributor (18) defines a
lid or plug that forms an end wall (21) in relation thereto.
3. (Original) A fuel injector according to claim 2, ~~characterized in that wherein~~ the fuel inlet (8)
is provided in the side wall (16) and that the outlets (10) are provided in an end wall (17).
4. (Original) A fuel injector according to claim 3, ~~characterized in that wherein~~ the fuel outlets
(10) are provided in an end wall (17) opposite to an end wall (21) that is formed by the fuel
distributor (18) or to which the fuel distributor (18) is attached.

5. (Currently amended) A fuel injector according to ~~any one of claims~~ claim 1[-4], ~~characterized in that it comprises a cylinder (16) that defines a~~ wherein a side wall (16); ~~forms a~~ and that the cylinder that has a generally circular inner periphery.
6. (Original) A fuel injector according to claim 5, ~~characterized in that~~ wherein the distributor body (19) is concentric with the cylinder (16).
7. (Original) A fuel injector according to any one of claims 1-6, ~~characterized in that~~ wherein the distributor body (19) is located in front of the fuel inlet (8) and covers the fuel inlet (8).
8. (Currently amended) A method of manufacturing a fuel injector ~~according to any one of claims 1 [7] 6, characterized in that~~ comprising a chamber (7) with a fuel inlet (8) and a plurality of fuel outlets (1) and a fuel distributor (18) arranged in the chamber (7) to distribute fuel introduced into the chamber (7) via the fuel inlet (8) to the outlets (10), said chamber (7) being delimited by at least one side wall (16) provided with said fuel inlet (8) and a first end wall (17) provided with said fuel outlets (10), wherein the fuel distributor (18) comprises a generally rotary symmetric distributor body (19) extending towards the first end wall (17) and ends at a given distance from the first end wall (17) and thereby being positioned in front of the fuel inlet (8) and cover the fuel inlet (8) when projected on the side wall (16) and the distributor body (19) is produced by subjecting a work piece to a turning operation.
9. (Original) A method according to claim 8, ~~characterized in that~~ wherein the distributor body (19) is formed to its final shape by the turning operation.
10. (Original) A method according to claim 8 or 9, ~~characterized in that~~ wherein the fuel distributor (18) is attached to an adjacent side wall (16) of the fuel injector (1) by means of welding or brazing.

11. (Original) An engine comprising:

a combustion chamber, ~~characterized in that it comprises~~ including a fuel injector (2) ~~according to any one of claims 1-7~~ comprising a chamber (7) with a fuel inlet (8) and a plurality of fuel outlets (10) and a fuel distributor (18) arranged in the chamber (7) to distribute fuel introduced into the chamber (7) via the fuel inlet (8) to the outlets (10), said chamber (7) being delimited by at least one side wall (16) provided with said fuel inlet (8) and a first end wall (17) provided with said fuel outlets (10), wherein the fuel distributor (18) comprises a generally rotary symmetric distributor body (19) extending towards the first end wall (17) and ends at a given distance from the first end wall (17) and thereby being positioned in front of the fuel inlet (8) and cover the fuel inlet (8) when projected on the side wall (16), said fuel injector (2) configured to inject for injection of fuel into the combustion chamber (5) via the fuel outlets (10) of the fuel injector (1).

12. (Original) An engine according to claim 11, ~~characterized in that it wherein~~ said engine is a jet engine and ~~that~~ the combustion chamber (5) is an afterburner chamber.

13. (Currently Amended) A jet engine comprising an afterburner chamber, the afterburner chamber comprising:

a fuel injector (2), comprising a chamber (7) with a fuel inlet (8) and a plurality of fuel outlets (10), and comprising a fuel distributor (18) with a generally rotary symmetric body (19) that is arranged in the chamber (7) for the purpose of distributing fuel introduced into the chamber (7) via the fuel inlet (8) to the outlets (10), and further comprising An engine according to claim 12, characterized in that it comprises a plurality of fuel injection tubes (11) connected to said plurality of fuel outlets (10) of the fuel injector (1) and extending into the afterburner chamber (5).

14. (Currently amended) A jet engine according to ~~any one of claims 12-13, characterized in that it comprises claim 13, further comprising:~~

a radial flame holder (12) and that the fuel injector tubes (11) extend into the afterburner chamber (5) upstream the radial flame holder (12) as seen in the gas flow direction in the afterburner.

15. (New) A fuel injector (2) comprising a chamber (7) with a fuel inlet (8) and a plurality of fuel outlets (10) arranged through walls defining the chamber (7), and a fuel distributor body positioned at a distance from both the inlet (8) and the outlets (10) and positioned in front of the inlet (8).

16. (New) A fuel injector (2) according to claim 15, wherein the outlets (10) extend through a first wall (17) defining the chamber (7), which has a different inclination relative to a second wall, through which the inlet (8) extends.

17. (New) A fuel injector (2) according to claim 15, wherein a first wall (17) comprising the fuel outlets forms a substantially flat bottom surface in the chamber (7).

18. (New) A fuel injector (2) according to claim 15, wherein a second wall comprising the fuel inlet forms a side wall extending from the first wall (17).

19. (New) A fuel injector (2) according to claim 15, wherein the chamber (7) has a cylindrical shape.

20. (New) A fuel injector (2) according to claim 15, wherein the fuel distributor (18) has a rotary symmetrical shape.

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Applicant: BERGLUND, Joakim *et al.*

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21. (New) A fuel injector (2) according to claim 15, wherein the fuel distributor (18) has an outer shape corresponding to an inner shape of the chamber (7).

22. (New) A fuel injector (2) according to claim 15, wherein the fuel distributor (18) is rotationally fixed relative to the chamber (7).